PTO/SB/05 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

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## UTILITY PATENT APPLICATION TRANSMITTAL

| Attorney Docket No. |                                       | AH-RUBC:021US  |                      |  |  |  |  |  |
|---------------------|---------------------------------------|--|----------------------|--|--|--|--|--|
| First Inventor      |                                       | Jonathon H. Pinter   |                      |  |  |  |  |  |
| Title               | IN VITRO DN<br>GENOME AN<br>GENERATEI | IA IMMORTALIZATION AND WHOLE PROPERTIES OF FROM RANDOMLY, etc. | E<br>P               |  |  |  |  |  |
| C                   |                                       | ED 500007001   | $\overline{\Lambda}$ |  |  |  |  |  |

| (Only for new nonprovisional applications under 37 CFR 1.53(b))  Expres  |  |                                  |  |          | GENERATED FROM RANDOMLY, etc.   |  |         |      |                   |  |  |  |
|--|--|----------------------------------|--|----------|---|--|---------|------|-------------------|--|--|--|
|  |  |                                  |  |          | ss Mail Label No. ER 509387621  |  |         |      |                   |  |  |  |
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.  |  |                                  |  |          | ADDRESS TO:  MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 |  |         |      |                   |  |  |  |
| 2. X Applican See 37 ( 3. X Specifica - Cross - State - Refer - Refer - Brief - Detail - Detail - Claim - Abstr  4. X Drawing  5. Oath or Declar  a. New   | Applicant claims small entity status.   See 37 CFR 1.27.     X   Specification   [Total Pages   127   ]   (preferred arrangement set forth below)   - Descriptive title of the invention   - Cross Reference to Related Applications   Statement Regarding Fed sponsored R & D   - Reference to sequence listing, a table, or a computer program listing appendix   Background of the Invention   Brief Summary of the Invention   Brief Description of the Drawings (if filed)   Detailed Description   Claim(s)   - Abstract of the Disclosure   X Drawing(s) (35 U.S.C. 113)   [Total Sheets   42   ]   Dath or Declaration   [Total Sheets   ]   a. Newly executed (original or copy)   Copy from a prior application (37 CFR 1.63(d))   (for continuation/divisional with Box 18 completed) |                                  |  |          |   | 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or ii. X Paper c. X Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s))  10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney  11. English Translation Document (if applicable)  12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations  13. Preliminary Amendment  14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed)  16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. |         |      |                   |  |  |  |
|  | 6. X Application Data Sheet. See 37 CFR 1.76   |                                  |  |          |   |  |         |      | nt \$2,132.00     |  |  |  |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:  Prior application information: Examiner Art Unit:  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. |  |                                  |  |          |   |  |         |      |                   |  |  |  |
| 19. CORRESPONDENCE ADDRESS   |  |                                  |  |          |   |  |         |      |                   |  |  |  |
| X Custome  | er Number:   | 26271                            |  |          | OR  |  | Corresp | onde | nce address below |  |  |  |
| Name   |  | ·                                |  |          |   |  |         |      |                   |  |  |  |
| Address  |  | <del>-</del>                     |  |          |   |  |         |      |                   |  |  |  |
| City   | State  |                                  |  | Zip Code |   |  |         |      |                   |  |  |  |
| Country  | Telephone  |                                  |  |          | Fax   |  |         |      |                   |  |  |  |
| Name (Print/   | Type) Me   | Type) Melissa L. Sistrunk        |  |          | Registration No. (Attorney/   |  |         |      | 45,579            |  |  |  |
| Signature  |  | lissa L. Sistrunk<br>Helinsa YAA |  |          | _   |  | Date    | M    | arch 8, 2004      |  |  |  |

Utility Patent Application Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. ER 509387621, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: March 8, 2004

PTO/SB/17 (10-03)

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| CEE TO A NOMITTAL   |              |   |              |            | Comp                     | olete if Known   |                                      |  |  |
|---|--------------|---|--------------|------------|--------------------------|--|--------------------------------------|--|--|
| FEE TRANSMITTAL   |              | Application Number  |              |            |                          | Not Yet A  | ssigned                              |  |  |
| for FY 2004   |              | Filing Date   |              |            |                          | Concurre   | ntly Herewith                        |  |  |
|   |              | First Named Inventor  |              |            |                          | Jonathon   | H. Pinter                            | -  |  |
| Effective 10/01/2003, Patent fees are subject to annual revision.                                     |              | Examiner Name   |              |            |                          | Not Yet A  | ssigned                              |  |  |
| X Applicant claims small entity status. See 37 CFR 1.27   |              | Art Unit  |              |            |                          | N/A  |                                      |  |  |
| TOTAL AMOUNT OF PAYMENT (\$) 2,132.00   |              | Attom   | ey D         | ocket No   | ъ.                       | AH-RUB   | C:021US                              |  |  |
| METHOD OF PAYMENT (check all that apply)  |              |   |              | FEE        | CALCUL                   | ATION (co  | ntinued)                             |  |  |
| X Check Credit Money Other None   | 3. /         | ADDITIO   | ANC          | L FEES     |                          |  |                                      |  |  |
| Deposit Account:  |              |   |              |            |                          |  |                                      |  |  |
| Deposit   | Larg         | e Entity  |              |            |                          |  |                                      |  |  |
| Account Number 06-2375  | Fee<br>Code  | Fee<br>(\$)   | Fee<br>Code  |            |                          | Fee Desc   | ription                              | Fee Paid   |  |
| Deposit   | 1051         | 130   | 205          | ,          | Surchargo                | lata filina fa   | o or ooth                            | reeraid  |  |
| Account Fulbright & Jaworski L.L.P.   |              |   |              |            | -                        | <ul> <li>late filing fe</li> <li>late provision</li> </ul> | e or cam<br>onal filing fee or cover | <del>                                     </del> |  |
| The Director is authorized to: (check all that apply)   | 1052         | 50  | 2052         | 2 25       | sheet.                   | iato proviote  | onal ming ice of cover               |  |  |
| Charge fee(s) indicated below X Credit any overpayments   | 1053         | 130   | 1053         | 3 130      | Non-Englis               | on-English specification                                   |                                      |  |  |
| X Charge any additional fee(s) or any underpayment of fee(s)  | 1812         | 2,520   | 1812         | 2 2,520    | For filing a             | r filing a request for ex parte reexamination              |                                      |  |  |
| Charge fee(s) indicated below, except for the filing fee  | 1804         | 920*  | 1804         | 920*       |                          | equesting publication of SIR prior to aminer action        |                                      |  |  |
| to the above-identified deposit account.  | 1805         | 1,840*  | 1805         | 5 1,840*   | Requesting               | questing publication of SIR after                          |                                      |  |  |
| FEE CALCULATION   | 1251         | 110   | 2251         | 1 55       |                          | on for reply within first month                            |                                      |  |  |
| 1. BASIC FILING FEE   | 1252         | 420   | 2252         | 2 210      | Extension t              | n for reply within second month                            |                                      |  |  |
| Large Entity Small Entity   | 1253         | 950   | 2253         | 3 475      | Extension                | for reply within   | n third month                        |  |  |
| Fee Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)                                      | 1254         | 1,480   | 2254         | 4 740      | Extension                | for reply within   | n fourth month                       |  |  |
| 1001 770 2001 385 Utility filing fee 385.00   | 1255         | 2,010   | 2255         | 5 1,005    | Extension                | for reply within   | n fifth month                        |  |  |
| 1002 340 2002 170 Design filing fee   | 1401         | 330   | 2401         |            | Notice of A              | ppeal  |                                      |  |  |
| 1003 530 2003 265 Plant filing fee  | 1402         | 330   | 2402         |            |                          | ef in support o  | of an appeal                         |  |  |
| 1004 770 2004 385 Reissue filing fee<br>1005 160 2005 80 Provisional filing fee                       | 1403<br>1451 | 290<br>1,510  | 2403<br>1451 |            | •                        | r oral hearing   |                                      |  |  |
|   | 1451         | 110   | 2452         | Ī          |                          | institute a pub<br>revive – unavi                          | olic use proceeding                  |  |  |
| SUBTOTAL (1) (\$) 385.00  | 1453         |   | 2453         |            |                          | ition to revive - unintentional                            |                                      |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE   | 1501         | 1,330   | 2501         | 1 665      | Utility issue            | Jtility issue fee (or reissue)                             |                                      |  |  |
| Extra Fee from<br>Claims below Fee Paid   | 1502         | 480   | 2502         | 2 240      | Design issu              | ue fee   |                                      |  |  |
| Total Claims 152 -20** = 132 x 9.00 = 1,188.00  | 1503         | 640   | 2503         | 3 320      | Plant issue              | fee  |                                      |  |  |
| Independent 16 -3** = 13 x 43.00 = 559.00   | 1460         | 130   | 1460         | 130        | Petitions to             | itions to the Commissioner                                 |                                      |  |  |
| Multiple Dependent =  | 1807         | 50  | 1807         | 7 50       | Processing               | rocessing fee under 37 CFR 1.17(q)                         |                                      |  |  |
| Large Entity   Small Entity   | 1806         | 180   | 1806         | 180        | Submission               | n of Informatio  | on Disclosure Stmt                   |  |  |
| Fee Fee Fee Code (\$) Fee Description   | 8021         | 40  | 8021         | 1 40       |                          | each patent a<br>mes number o                              | ssignment per<br>of properties)      |  |  |
| 1202 18 2202 9 Claims in excess of 20   | 1809         | 770   | 2809         | 385        |                          |  | final rejection                      |  |  |
| 1201 86 2201 43 Independent claims in excess of 3   | 1810         | 770   | 2810         | 385        | (37 CFR 1.<br>For each a | dditional inver  | ntion to be                          |  |  |
| 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims | 1801         | ·   |              |            |                          | (37CFR 1.129   |                                      |  |  |
| 1204 86 2204 43 ** Reissue independent claims over original patent                                    | 1            | 770   | 2801         |            | -                        | r Continued E<br>r expedited ex                            | xamination (RCE) xamination          | $\vdash$   |  |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent                             |              | 1802 900 1802 900 request for expedited examination Other fee (specify) |              |            |                          |  |                                      |  |  |
| 1   |              |   |              | Filing For | Poid                     | CUDTO  | TAL (2) (6)                          | <u></u>  |  |
| SUBTOTAL (2) (\$) 1,747.00  **or number previously paid, if greater, For Reissues, see above          | Red          | ucea by t   | basic        | Filing Fee | raiq                     | SUBTO  | TAL (3) (\$)                         | 0.00   |  |
| SUBMITTED BY  |              |   |              |            | (Complete                | (if applicable))   |                                      |  |  |
| Name (Print/Type) Melissa L. Sistrunk   |              | gistration No.  |              |            |                          |  |                                      | <del></del>                                      |  |
| Signature Melina 411A   | 4, 410111    | -jn gentj   |              |            | -                        | <del> </del>   | March 8, 2004                        |  |  |

Fee Transmittal

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Dated: March 8, 2004

Monica L. Thomas) Signature: